8A Finding Cartesian Equations

1. a) Draw the graph of the function:

$$x = 2t y = t^2$$
$$-3 \le t \le 3$$

b) Find the Cartesian equation of the curve

2. A curve has parametric equations:

$$x = \ln(t+3) \quad y = \frac{1}{t+5}$$

a) Find a Cartesian equation of the curve in the form y=f(x), x>k, where k is a constant to be found.

b) Write down the range of f(x)